

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:

see form PCT/ISA/220

PCT

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)

Date of mailing
(day/month/year) see form PCT/ISA/210 (second sheet)

Applicant's or agent's file reference
see form PCT/ISA/220

FOR FURTHER ACTION
See paragraph 2 below

International application No.
PCT/NZ2005/000265

International filing date (day/month/year)
12.10.2005

Priority date (day/month/year)
23.12.2004

International Patent Classification (IPC) or both national classification and IPC
B64C27/00

Applicant
ARCIT LIMITED

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:



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APPROVED FOR FILING 25 APR 2005

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/NZ2005/000265

Box No. I Basis of the opinion

1. With regard to the **language**, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
 - ☐ This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material:
 - ☐ a sequence listing
 - ☐ table(s) related to the sequence listing
 - b. format of material:
 - ☐ in written format
 - ☐ in computer readable form
 - c. time of filing/furnishing:
 - ☐ contained in the international application as filed.
 - ☐ filed together with the international application in computer readable form.
 - ☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/NZ2005/000265

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

| | | |
|-------------------------------|-------------|------|
| Novelty (N) | Yes: Claims | 1-28 |
| | No: Claims | |
| Inventive step (IS) | Yes: Claims | 1-28 |
| | No: Claims | |
| Industrial applicability (IA) | Yes: Claims | 1-28 |
| | No: Claims | |

2. Citations and explanations

see separate sheet

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING
AUTHORITY (SEPARATE SHEET)**

100 806933
100 806933
International application No.

PCT/NZ2005/000265

Re Item V

**Reasoned statement with regard to novelty, inventive step or industrial applicability;
citations and explanations supporting such statement**

1. Field of the invention

Wire-strike systems of the wire cutter active type.

2. Prior Art

The document US-A-4 407 467 (EMIGH ET AL) is considered to be the closest Prior Art, disclosing a pyrotechnically actuated active mechanical wire-strike system (See abstract and figures). Note that this system already provides operation capability independently of the aircraft speed; compared to the "only" mechanical knife-type wire-cutters which require a certain aircraft speed to be effective (see as an example WO9938770).

3. Objective Problem

Simplify the system and eliminate the need for explosive (pyrotechnic) devices for such an active wire-cutter.

4. Solution

(See fig. 9a) The wire cutter includes at least one pair of electrodes (5, 6), electrically insulated from each other and connected to a power source (11) capable of generating an electrical potential difference between the electrodes (5, 6) and in the event of a wire-strike, supply a short circuit current flow through a portion of said wire connecting both electrodes.

This solution remains unknown from and is not rendered obvious by the available prior art. Therefore claims 1-28 meet the requirements of Articles 33 (2) and (3) PCT.

5. Remarks

Independent claims:

1 - Wire-strike system.

18 - Aircraft provided with wire-strike system.

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING
AUTHORITY (SEPARATE SHEET)**

International application No.

PCT/NZ2005/000265

26 - Method of severing a wire impacting an aircraft in a wire-strike.